

ABSTRACT

The present invention provides a radar device mounted on a moving object that moves along a continuous plane, having (1) a transceiver part for transmitting a signal having a main lobe in the direction of the movement of the moving object and a side lobe directed towards the continuous plane, that receives a first reflection signal from a target in the direction of the main lobe and a second reflection signal from the continuous plane in the direction of the side lobe, and (2) control processing means for detecting the frequency of a beat signal of the second reflection signal received by the transceiver part and the signal emitted by the transceiver part and for detecting information correlated to the attitude of the radar device with respect to the continuous plane based on that frequency. This enables detection of changes of mounting attitude for the moving object without requiring additional hardware.